RAW SEQUENCE LISTING   DATE: 06/14/2001
PATENT APPLICATION: **US/09/828,217**   TIME: 15:44:47

Input Set : **N:\Crf3\RULE60\09828217.txt**
Output Set: **N:\CRF3\06142001\I828217.raw**

SEQUENCE LISTING

```
 3 (1) GENERAL INFORMATION:
 5     (i) APPLICANT: HIRANO, TOSHIO
 6                    KAISHO, TSUNEYASU
 8    (ii) TITLE OF INVENTION: MEMBRANE PROTEIN POLYPEPTIDE HAVING
 9                            PRE-B CELL GROWTH-SUPPORTING ABILITY AND A GENE THEREOF
11   (iii) NUMBER OF SEQUENCES: 2
13    (iv) CORRESPONDENCE ADDRESS:
14         (A) ADDRESSEE: OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT,
15                        P.C.
16         (B) STREET: 1755 S. JEFFERSON DAVIS HIGHWAY, SUITE 400
17         (C) CITY: ARLINGTON
18         (D) STATE: VA
19         (E) COUNTRY: USA
20         (F) ZIP: 22202
22     (v) COMPUTER READABLE FORM:
23         (A) MEDIUM TYPE: Floppy disk
24         (B) COMPUTER: IBM PC compatible
25         (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26         (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
28    (vi) CURRENT APPLICATION DATA:
29         (A) APPLICATION NUMBER: US/09/828,217          C-->
30         (B) FILING DATE: 09-Apr-2001                   C-->
31         (C) CLASSIFICATION:
40   (vii) PRIOR APPLICATION DATA:
34         (A) APPLICATION NUMBER: 09/182,563
35         (B) FILING DATE:
37         (A) APPLICATION NUMBER: PCT/JP94/01732
38         (B) FILING DATE: 14-OCT-1994
41         (A) APPLICATION NUMBER: JP 5-281622
42         (B) FILING DATE: 15-OCT-1993
44  (viii) ATTORNEY/AGENT INFORMATION:
45         (A) NAME: OBLON, NORMAN F.
46         (B) REGISTRATION NUMBER: 24,618
47         (C) REFERENCE/DOCKET NUMBER: 7625-001-0 PCT
49    (ix) TELECOMMUNICATION INFORMATION:
50         (A) TELEPHONE: 703-413-3000
51         (B) TELEFAX: 703-413-2220
54 (2) INFORMATION FOR SEQ ID NO: 1:
56     (i) SEQUENCE CHARACTERISTICS:
57         (A) LENGTH: 180 amino acids
58         (B) TYPE: amino acid
59         (C) STRANDEDNESS: single
60         (D) TOPOLOGY: linear
62    (ii) MOLECULE TYPE: peptide
67    (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
69     Met Ala Ser Thr Ser Tyr Asp Tyr Cys Arg Val Pro Met Glu Asp Gly
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```
70   1                5                    10                      15
72   Asp Lys Arg Cys Lys Leu Leu Leu Gly Ile Gly Ile Leu Val Leu Leu
73             20                  25                  30
75   Ile Ile Val Ile Leu Gly Val Pro Leu Ile Ile Phe Thr Ile Lys Ala
76             35                  40                  45
78   Asn Ser Glu Ala Cys Arg Asp Gly Leu Arg Ala Val Met Glu Cys Arg
79         50                  55                  60
81   Asn Val Thr His Leu Leu Gln Gln Glu Leu Thr Glu Ala Gln Lys Gly
82   65                  70                  75                  80
84   Phe Gln Asp Val Glu Ala Gln Ala Ala Thr Cys Asn His Thr Val Met
85                 85                  90                  95
87   Ala Leu Met Ala Ser Leu Asp Ala Glu Lys Ala Gln Gly Gln Lys Lys
88                 100                 105                 110
90   Val Glu Glu Leu Glu Gly Glu Ile Thr Thr Leu Asn His Lys Leu Gln
91             115                 120                 125
93   Asp Ala Ser Ala Glu Val Glu Arg Leu Arg Arg Glu Asn Gln Val Leu
94         130                 135                 140
96   Ser Val Arg Ile Ala Asp Lys Lys Tyr Tyr Pro Ser Ser Gln Asp Ser
97   145                 150                 155                 160
99   Ser Ser Ala Ala Ala Pro Gln Leu Leu Ile Val Leu Leu Gly Leu Ser
100                 165                 170                 175
102     Ala Leu Leu Gln
103                 180
```

105 (2) INFORMATION FOR SEQ ID NO: 2:
107   (i) SEQUENCE CHARACTERISTICS:
108   (A) LENGTH: 996 base pairs
109   (B) TYPE: nucleic acid
110   (C) STRANDEDNESS: double
111   (D) TOPOLOGY: linear
113   (ii) MOLECULE TYPE: cDNA to mRNA
118   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

```
120 GTGGAATTCA TGGCATCTAC TTCGTATGAC TATTGCAGAG TGCCCATGGA AGACGGGGAT      60
122 AAGCGCTGTA AGCTTCTGCT GGGGATAGGA ATTCTGGTGC TCCTGATCAT CGTGATTCTG     120
124 GGGGTGCCCT TGATTATCTT CACCATCAAG GCCAACAGCG AGGCCTGCCG GGACGGCCTT     180
126 CGGGCAGTGA TGGAGTGTCG CAATGTCACC CATCTCCTGC AACAAGAGCT GACCGAGGCC     240
128 CAGAAGGGCT TTCAGGATGT GGAGGCCCAG GCCGCCACCT GCAACCACAC TGTGATGGCC     300
130 CTAATGGCTT CCCTGGATGC AGAGAAGGCC CAAGGACAAA AGAAAGTGGA GGAGCTTGAG     360
132 GGAGAGATCA CTACATTAAA CCATAAGCTT CAGGACGCGT CTGCAGAGGT GGAGCGACTG     420
134 AGAAGAGAAA ACCAGGTCTT AAGCGTGAGA ATCGCGGACA AGAAGTACTA CCCCAGCTCC     480
136 CAGGACTCCA GCTCCGCTGC GGCGCCCCAG CTGCTGATTG TGCTGCTGGG CCTCAGCGCT     540
138 CTGCTGCAGT GAGATCCCAG GAAGCTGGCA CATCTTGGAA GGTCCGTCCT GCTCGGCTTT     600
140 TCGCTTGAAC ATTCCCTTGA TCTCATCAGT TCTGAGCGGG TCATGGGGCA ACACGGTTAG     660
142 CGGGGAGAGC ACGGGGTAGC CGGAGAAGGG CCTCTGGAGC AGGTCTGGAG GGGCCATGGG     720
144 GCAGTCCTGG GTGTGGGGAC ACAGTCGGGT TGACCCAGGG CTGTCTCCCT CCAGAGCCTC     780
146 CCTCCGGACA ATGAGTCCCC CCTCTTGTCT CCCACCCTGA GATTGGGCAT GGGGTGCGGT     840
148 GTGGGGGGCA TGTGCTGCCT GTTGTTATGG GTTTTTTTTG CGGGGGGGGT TGCTTTTTTC     900
150 TGGGGTCTTT GAGCTCCAAA AAATAAACAC TTCCTTTGAG GGAGAGCAAA AAAAAAAAA     960
152 AAAAAAAAAA AAAAAAAAAA AAAGAATTCC ACCACA                              996
```

VERIFICATION SUMMARY   DATE: 06/14/2001
PATENT APPLICATION: **US/09/828,217**   TIME: 15:44:48

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L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]